

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## SECTION 6-4 REVIEW AND REINFORCE

### Acids and Bases in Solution

#### ► Understanding Main Ideas

Complete the concept map shown below and answer the following questions on a separate sheet of paper.

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Substances with a pH in this range are 1. _____							Substances with a pH in this range are 2. _____							
In water, they form 3. _____ ions.							In water, they form 4. _____ ions.							

- What is the difference between a strong acid and a weak acid?
- What is the difference between a strong base and a weak base?
- Which solution has a greater concentration of hydrogen ions ( $H^+$ ), a solution with a pH of 3 or one with a pH of 7? Explain.
- What are the products formed when a base reacts with an acid?
- What is the pH of a neutral solution?

#### ► Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

- |                                    |  |
|------------------------------------|--|
| _____ 10. hydroxide ion ( $OH^-$ ) | a. ionic compound that can form from the reaction of an acid with a base           |
| _____ 11. pH scale                 | b. reaction between an acid and a base   |
| _____ 12. acid rain                | c. series of numbers that indicates the concentration of hydrogen ions in solution |
| _____ 13. neutralization           | d. problem caused by gases that are released into the air as pollutants            |
| _____ 14. salt                     | e. polyatomic ion made of oxygen and hydrogen                                      |

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## SECTION 8-3 REVIEW AND REINFORCE

### Describing Acids and Bases

#### ◆ Understanding Main Ideas

Complete the following table.

Characteristic	Acid	Base
What Does It Taste Like?	1.	2.
How Does It React with Carbonates?	3.	4.
What Color Does It Turn Litmus?	5.	6.

#### ◆ Building Vocabulary

Answer the following questions in the spaces provided.

7. What does *corrosive* mean?

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8. If a substance reacts with a metal to produce hydrogen gas, what may you infer about the substance?

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9. What is an indicator?

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10. Why do you think bases are often described as the “opposites” of acids?

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